D STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: 6/12/87

SUBJECT: Potential Hazardous Waste Site

FROM: Keith Bradley, FIT RPO
Hazardous Waste Section (6E-SH)

SUPERFUND BRANCH

TO: Martha McKee, Chief
Compliance Section (6H-ES)

Site Name : Mitchel T. Halbouty Site

Location : Hackberry, LA

EPA ID No. : LAD981910644 ; Thorn Lease

TDD No. : F6-8704-41

A. Deliverables :

1. Preliminary Assessment (Form 2070-2)	attached ( )
2. Site Inspection Report (Form 2070-3)	attached (X)
3. Sampling Inspection Report	attached ( )
4. Other: _____	attached ( )

B. Were drinking water wells sampled ? Yes ( ) No (X)

C. Analytical Data :

1. None collected	(X)
2. Field data	( )
3. Contract lab results	attached ( )
4. Houston lab results	attached ( )

D. Comments :

Site is an active petroleum production and separation facility which has three separator and six storage tanks.

No further FIT action is recommended since no apparent hazards were observed.

90069350

SUPERFUND FILE

JUL 20 1992

REORGANIZED

cc: (circle) Cabra 6W-S
Gazda 6E-E
Taylor 6H-CE

TDD #F-06-8704-41

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION	SITE NUMBER (to be assigned by Hq)
VI	LAD981910664

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (*Section II*). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: Michel T. Halbouty (Thorn Lease)
B. STREET (or other identifier): .75 mi. west of LA Hwy. 27 on Halbouty Lane
C. CITY: Hackberry
D. STATE: LA
E. ZIP CODE: 70645
F. COUNTY NAME: Cameron

G. SITE OPERATOR INFORMATION
1. NAME: Michel T. Halbouty
2. TELEPHONE NUMBER: (713) 622-1130
3. STREET: 5100 West Heimer, Suite 500
4. CITY: Houston
5. STATE: TX
6. ZIP CODE: 77056

H. REALTY OWNER INFORMATION (*if different from operator of site*)
1. NAME: Michel T. Halbouty, Thorn Lease
2. TELEPHONE NUMBER: (713) 622-1130
3. CITY: Houston
4. STATE: TX
5. ZIP CODE: 77056

I. SITE DESCRIPTION: Site is an active petroleum production and separation facility which has three separators and six storage tanks.

J. TYPE OF OWNERSHIP
☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (*complete this section last*)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (*mo., day, & yr.*)
B. APPARENT SERIOUSNESS OF PROBLEM
☐ 1. HIGH ☐ 2. MEDIUM ☐ 3. LOW ☒ 4. NONE

C. PREPARER INFORMATION
1. NAME: Jeff Robinson (Jeff Robinson), ICF Technology
2. TELEPHONE NUMBER: (214) 744-1641
3. DATE (*mo., day, & yr.*): May 27, 1987

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION
1. NAME: Jeff Robinson
2. TITLE: FIT - ICF Staff Geologist
3. ORGANIZATION: ICF Technology, 1509 Main Street, Suite 900, Dallas, TX 75201
4. TELEPHONE NO. (*area code & no.*): (214) 744-1641

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Steve Cowan	ICF Technology, 1509 Main Street, Suite 900 Dallas, TX 75201	(214) 744-1641

C. SITE REPRESENTATIVES INTERVIEWED (*corporate officials, workers, residents*)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Mr. Broussard	Field Foreman/None	Unknown (LAD981910664)
		SUPERFUND FILE
		JUL 20 1992
		REORGANIZED

Continue On Reverse

Continued From Front

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Michel T. Halbouty	(713) 622-1130	5100 West Heimer, Suite 500 Houston, TX 77056	Petroleum & Salt Water

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
N/A			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
N/A		

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY (credentials must be shown in all cases)
May 14, 1987	0850 - 0930	[X] 1. PERMISSION [ ] 2. WARRANT

J. WEATHER (describe)

Partly cloudy and 85° F with no wind.

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)	x	No samples were taken.	

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
No field measurements	were taken.	

Continue On Page 3

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [ ] b. AERIAL

2. PHOTOS IN CUSTODY OF: EPA Region VI (attached)

D. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS: U.S.G.S topographic map and site sketch (attached)

E. COORDINATES

1. LATITUDE (deg.-min.-sec.): 29° 59' 02" N

2. LONGITUDE (deg.-min.-sec.): 93° 22' 56" W

V. SITE INFORMATION

A. SITE STATUS

[X] 1. ACTIVE (Those inductrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

[ ] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code): Oil production facilities do not have an SIC code

C. AREA OF SITE (in acres): 1.5

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (specify): 1 metal storage shed

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

'X'	A. TRANSPORTER	X'	B. STORER	X'	C. TREATER	X'	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE	X	3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK	X	4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND	X	5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

[X] 1. STORAGE [ ] 2. INCINERATION [ ] 3. LANDFILL [ ] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [ ] 2. SOLID [ ] 3. SLUDGE [X] 4. GAS

B. WASTE CHARACTERISTICS

[ ] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[X] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [X] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Records of wastes are not available.

Continue On Reverse

Continued From Front

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category, mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT: None	AMOUNT: Unknown	AMOUNT: None	AMOUNT: Approx. 200	AMOUNT: None	AMOUNT: Unknown
UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:
X (1) PAINT PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LABORATORY PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
(5) OTHER (specify):			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	X (5) OTHER (specify):
			(6) CYANIDE	(6) OTHER (specify):	Salt Water
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			X (11) OTHER (specify):		
			Demulsifier		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Petroleum		x						None	Unknown	
Salt Water		x						None	Unknown	
Demulsifier		x						None	200	gallons

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

[X] A. HUMAN HEALTH HAZARDS

The nearest house to the identified site is approximately 900 feet northeast. Overall, the population is widely scattered around the vicinity of the site.

Continue On Page 5

Continued From Page 4

VIII. HAZARD DESCRIPTION *(continued)*

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☐ D. CONTAMINATION OF WATER SUPPLY

☐ E. CONTAMINATION OF FOOD CHAIN

☐ F. CONTAMINATION OF GROUND WATER

☐ G. CONTAMINATION OF SURFACE WATER

Continue On Reverse

Continued From Front

VIII. HAZARD DESCRIPTION *(continued)*

☐ H. DAMAGE TO FLORA/FAUNA

☐ I. FISH KILL

☐ J. CONTAMINATION OF AIR

☐ K. NOTICEABLE ODORS

☐ L. CONTAMINATION OF SOIL

☐ M. PROPERTY DAMAGE

Continue On Page 7

Continued From Page 6

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

The oil storage tanks may leak periodically, but diking is present at the site to contain the oily waters. Oil and water can commonly be found as a standing liquid in the diked area. No runoff or off-site movement of the wastes was observed. Small amounts of standing liquid were observed.

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☒ R. INADEQUATE SECURITY

Security at the site was minimal. Fencing was not present in the immediate area of the site and the field foreman kept track of who entered the site. The roads to the site were posted, though.

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☒ U. OTHER (specify):

The site was located southwest of Highway 390 on Halbouty Lane. The site consisted of 6 oil storage tanks, and 3 heater/treater separators. A pit possibly containing salt water and oil was discovered during site discovery and is shown on EPA aerial photographs, but this pit was recently closed and filled with dirt. No wastes were observed at the surface and vegetation was growing in the pit area.

Containment or diking, around the storage tanks and separators, was adequate to prevent oily sludge and salt water from leaving the site. The diking around the storage facilities had about a 6 to 8 foot freeboard. A standing liquid of oil and water was observed during the inspection. The standing liquid was contained and no off-site movement was observed.

The city of Hackberry uses groundwater as its primary source of drinking water. This water is from the "500' sand" of the Chicot aquifer. The Chicot aquifer is an extensive and potable source of water used by most of southwestern Louisiana. Just to the south of Hackberry the water is nonpotable due to the salt content. The Hackberry Waterworks Department also furnishes water to the town of Holly Beach, which is south of Hackberry on the Louisiana coast. The Hackberry Waterworks Department has approximately 839 connections and services approximately 2,000 people from 3 wells. A few private wells are found in the area, but their exact locations are unknown.

(See Attachment A)

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	2,000	2,000	839	< 1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	0	0	0	0
3. IN PUBLICLY TRAVELLED AREAS	0	0	0	0
4. PUBLIC USE AREAS (parks, schools, etc.)	300	300	7	< 1 mile

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit)	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
500 feet (est.)	West to Southwest	Residential or Public
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure)**	**F. DIRECTION TO DRINKING WATER SUPPLY**
Approx. 1,000 GPM	Approx. 1 mile	Northeast

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS ☒ 2. COMMUNITY > 15 CONNECTIONS (specify town): Hackberry, LA; Holly Beach, LA

☐ 3. SURFACE WATER ☒ 4. WELL

Continue On Page 9

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (Continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1 4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
No wells within one-quarter of a mile are known.				

I. RECEIVING WATER

1. NAME Unnamed Bayou

☐ 2. SEAS ☒ 3. STREAMS/RIVERS

A salt water bayou

☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

The bayou which is listed as the receiving water may be used for fishing, since fishing is common in the bayou areas.

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND				
X	2. CLAY				
X	3. GRAVEL				

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☐ D. MODERATE (10 to .1 cm/sec.) ☒ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE	2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.
1%	Direction of slope is to the east and condition is good.

J. OTHER GEOLOGICAL DATA

Quaternary deposits are found on the surface and rise only a few feet above sea level. These deposits are generally sands, gravel, and clays which were deposited in deltaic sequences. The resulting geologic arrangement are beds of alternating sands and clays.

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XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
No permits are held by the site.							

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

[X] NONE [ ] YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation
VIII U.	The Chicot aquifer is a part of the Quaternary system and it is a series of Pleistocene terrace deposits composed of sand and gravel overlain by clays, silts, and interbedded sands. The result is a geologic arrangement of alternating sands and clays that thicken to the south. The Chicot aquifer has producing sands at the '200 foot', '500 foot', and '700 foot' zones and water movement is to the west to southwest due to excessive pumping. Sodium concentrations in the Chicot aquifer in Cameron Parish are naturally higher than surrounding parishes due to the salt doming in the area and due to the presence of salt water on the surface, but the water is still potable. The Chicot aquifer may be classified as a sole source aquifer in the future, but this status is currently under debate. The facility that was inspected on 5-14-87 had no apparent problems on-site. Some drums containing demulsifier were stored near a metal shed but they were in good condition. No wastes were observed outside the present containment structures and the site had a good appearance, despite the containment being unlined. It should be mentioned that there appears to have been an owner discrepancy at this site. Chevron U.S.A. was listed as the owner of the property and accompanied FIT on site. At that time they informed FIT that they did not have a record of owning this particular property. They did own a site approximately 1,000 feet to the north. A Mr. Broussard was on site but provided little information. Through further research a Mr. Michel T. Halbouty was listed as the owner or operator of the site. Based on this investigation, no further FIT action is recommended since no apparent hazards were observed.

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
[ ] YES [X] NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS 6 storage containers that hold approximately 1,200 barrels of oil. Four 55-gallon drums with demulsifier.

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[ ] YES [X] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS

6 oil storage tanks with a capacity of approximately 8,000 gallons each.

7. NOTE LABELING ON CONTAINERS

No labeling included since these are oil storage facilities.

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[X] YES [ ] NO

Leakage most likely occurs when oil is removed from tanks for transport to refinery. The tanks that store oil have no containment problems at this time.

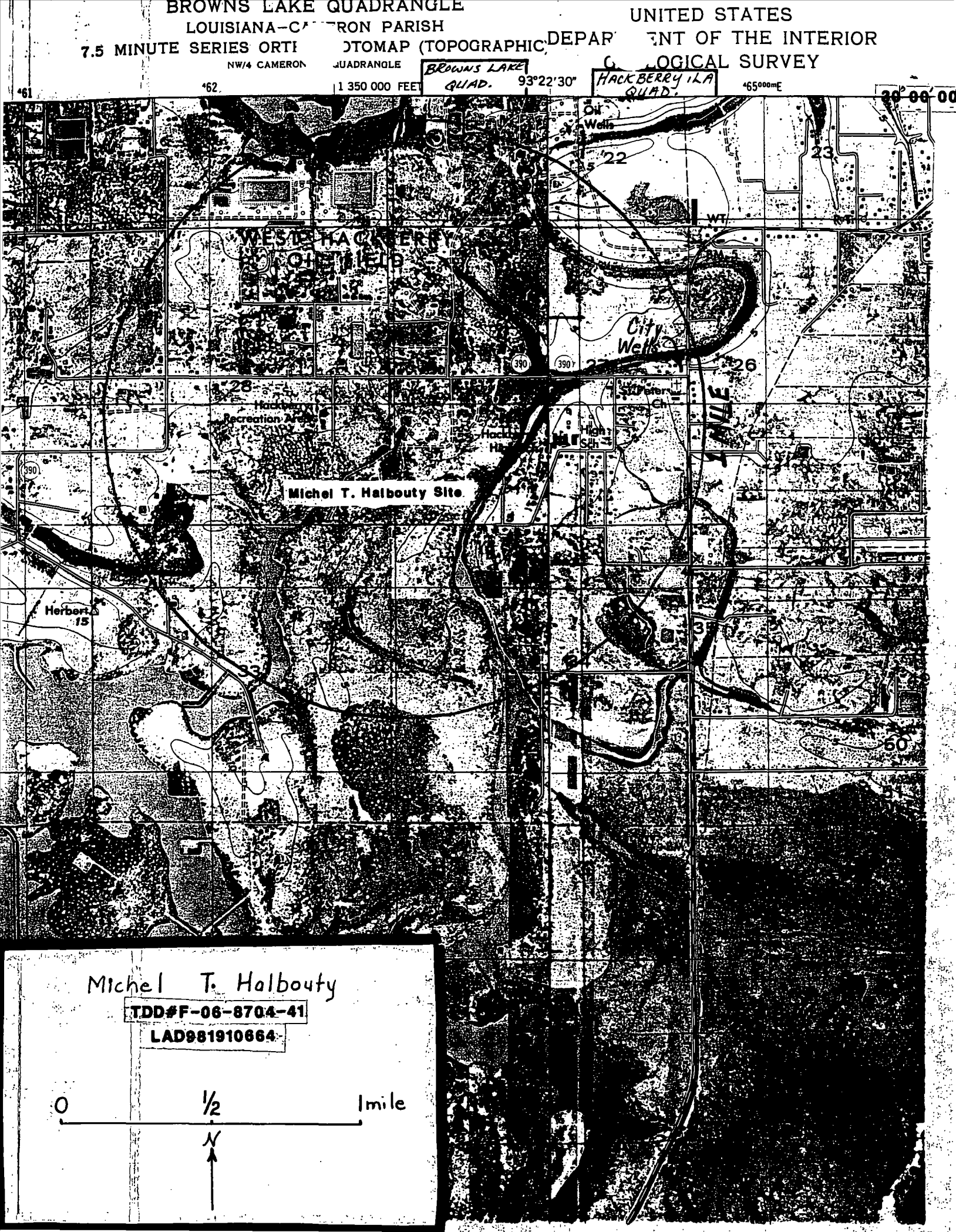
9. DIRECT VENTING OF STORAGE TANKS
[ ] YES [X] NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

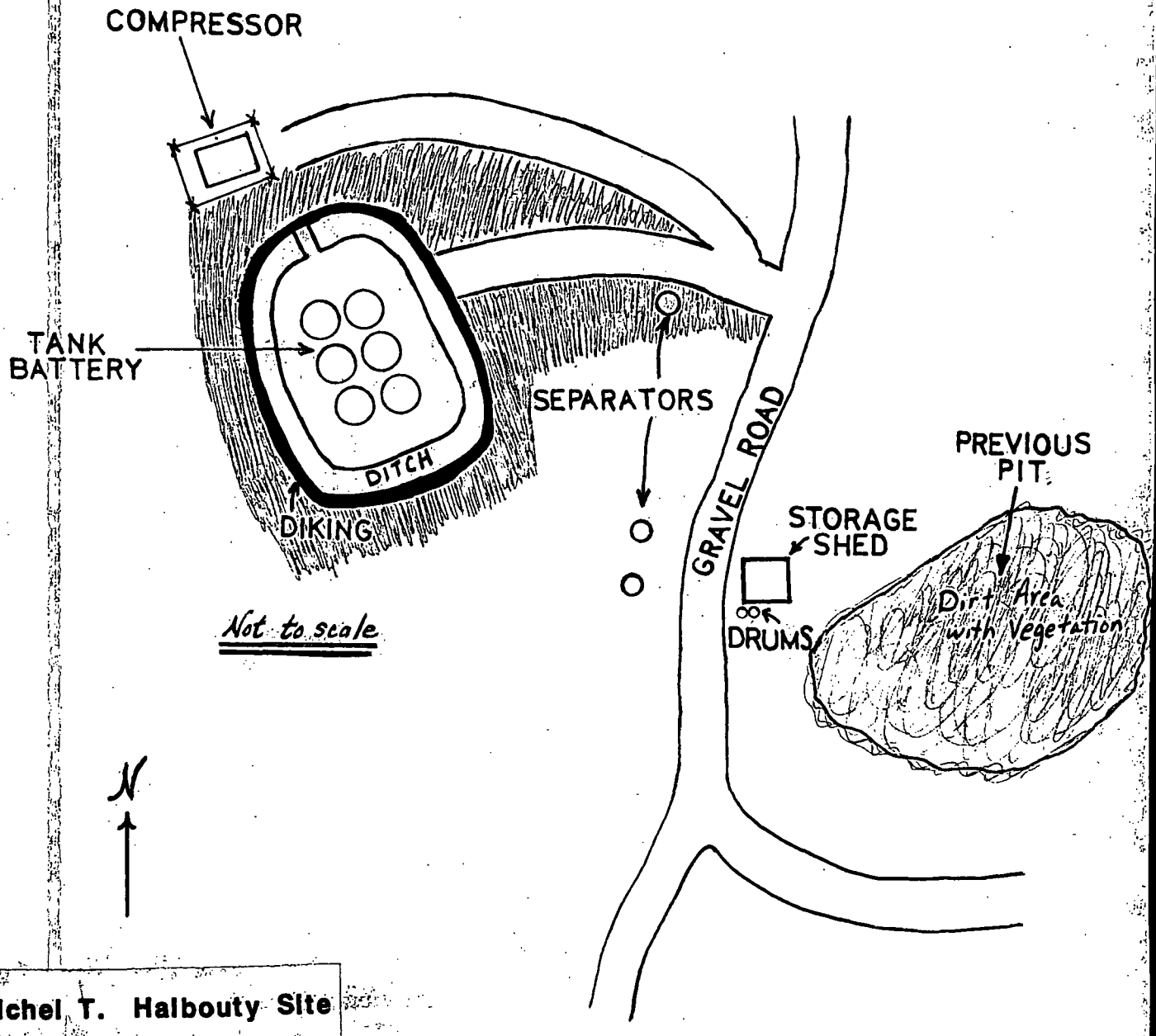
11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[X] YES [ ] NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[X] YES [ ] NO


BROWNS LAKE QUADRANGLE
LOUISIANA-CAMERON PARISH
7.5 MINUTE SERIES ORTHOTOMAP (TOPOGRAPHIC)
NW/4 CAMERON QUADRANGLE
1 350 000 FEET
BROWNS LAKE QUAD.
93°22'30"
HACKBERRY LA QUAD.
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WEST HACKBERRY OIL FIELD
Michel T. Halbouty Site
Oil Wells
City Wells
Recreation Area
St. Peters Ch
Herbert
15
390
Michel T. Halbouty
TDD#F-06-8704-41
LAD981910664
0
1/2
1 mile
N

SITE SKETCH



Michel T. Halbouty Site

TDD# F-06-8704-41

LAD981910664

MEMO TO FILE

The following information, Photos, has been separated from the rest of the original documents belonging to site, Thoen Lease ID # CAD981910664, because the material could not be stored at the Federal Records Center due to certain storage restrictions. The removed information will be stored in the fileroom under the subcode of AM, alternative media, within the current file structure.